

Appendix H

Hazardous Materials Information

This appendix consists primarily of charts that provide data required to prepare munitions shipments. As always, safety is a primary consideration when handling, processing, and transporting munitions. See DOD 4500.9-R and Title 49, Code of Federal Regulations, Part 172, for more information.

UNO AMMUNITION AND EXPLOSIVES SHIPMENTS

H-1. Tables H-1 through H-3 contain the elements of UNO information required to prepare munitions for shipment and to complete required forms. PSNs are limited to those shown in regular type (not italic type). PSNs may be used in the singular or plural and in either capital or lower-case letters. Although punctuation marks and words in italics are not part of the PSN, they may also be included. The word "or" in italics indicates that terms in the sequence may be used as the PSN, as appropriate. These elements are established by and defined in 49 CFR.

Table H-1. UNO HC 1 Requirements Data

UNO Number	Proper Shipping Name	HC/DIV with SCG
0004	Ammonium picrate, <i>dry or wetted with less than 10 percent water by mass</i>	1.1D
0005	Cartridges for weapons, <i>with bursting charge</i>	1.1F
0006	Cartridges for weapons, <i>with bursting charge</i>	1.1E
0007	Cartridges for weapons, <i>with bursting charge</i>	1.2F
0009	Ammunition, Incendiary <i>with or without burster, expelling charge, or propelling charge</i>	1.2G
0010	Ammunition, Incendiary <i>with or without burster, expelling charge, or propelling charge</i>	1.3G
0012	Cartridges for weapons, inert projectile <i>or</i> Cartridges, small arms	1.4S
0014	Cartridges for weapons, blank <i>or</i> Cartridges, small arms, blank	1.4S
0015	Ammunition, smoke <i>with or without burster, expelling charge or propelling charge</i>	1.2G
0016	Ammunition, smoke <i>with or without burster, expelling charge or propelling charge</i>	1.3G

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0018	Ammunition, tear-producing <i>with burster, expelling charge or propelling charge</i>	1.2G
0019	Ammunition, tear-producing <i>with burster, expelling charge or propelling charge</i>	1.3G
0020*	Ammunition, toxic <i>with burster, expelling charge, or propelling charge</i>	1.2K
0021*	Ammunition, toxic <i>with burster, expelling charge, or propelling charge</i>	1.3K
0027	Black powder or Gunpowder, <i>granular or as a meal</i>	1.1D
0028	Black powder, compressed or Gunpowder, compressed or Black powder, in pellets or Gunpowder, in pellets	1.1D
0029	Detonators, nonelectric, <i>for blasting</i>	1.1B
0030	Detonators, electric, <i>for blasting</i>	1.1B
0033	Bombs, <i>with bursting charge</i>	1.1F
0034	Bombs, <i>with bursting charge</i>	1.1D
0035	Bombs, <i>with bursting charge</i>	1.2D
0037	Bombs, photo-flash	1.1F
0038	Bombs, photo-flash	1.1D
0039	Bombs, photo-flash	1.2G
0042	Boosters, <i>without detonator</i>	1.1D
0043	Bursters, <i>explosive</i>	1.1D
0044	Primers, cap type	1.4S
0048	Charges, demolition	1.1D
0049	Cartridges, flash	1.1G
0050	Cartridges, flash	1.3G
0054	Cartridges, signal	1.3G
0055	Cases, cartridge, empty with primer	1.4S
0056	Charges, depth	1.1D
0059	Charges, shaped, commercial, <i>without detonator</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0060	Charges, supplementary explosive	1.1D
0065	Cord, detonating, <i>flexible</i>	1.1D
0066	Cord, igniter	1.4G
0070	Cutters, cable, explosive	1.4S
0072	Cyclotrimethylenetrinitramine, wetted <i>or</i> Cyclonite, wetted <i>or</i> Hexogen, wetted <i>or</i> RDX, wetted <i>with not less than 15 percent water by mass</i>	1.1D
0073	Detonators for ammunition	1.1B
0074	Diazodinitrophenol, wetted <i>with not less than 40 percent water or mixture of alcohol and water, by mass</i>	1.1A
0075	Diethyleneglycol dinitrate, desensitized <i>with not less than 25 percent nonvolatile water-insoluble phlegmatizer, by mass</i>	1.1D
0076	Dinitrophenol, <i>dry or wetted with less than 15 percent water, by mass</i>	1.1D
0077	Dinitrophenolates <i>alkali metals, dry or wetted with less than 15 percent water, by mass</i>	1.3C
0078	Dinitroresorcinol, <i>dry or wetted with less than 15 percent water, by mass</i>	1.1D
0079	Hexanitrodiphenylamine <i>or</i> Dipicrylamine <i>or</i> Hexyl	1.1D
0081	Explosive, blasting, type A	1.1D
0082	Explosive, blasting, type B	1.1D
0083	Explosive, blasting, type C	1.1D
0084	Explosive, blasting, type D	1.1D
0092	Flares, surface	1.3G
0093	Flares, aerial	1.3G
0094	Flash powder	1.1G
0099	Fracturing devices, explosive, <i>without detonators for oil wells</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0101	Fuse, instantaneous, nondetonating <i>or</i> Quickmatch	1.3G
0102	Cord detonating <i>or</i> Fuse detonating <i>metal clad</i>	1.2D
0103	Fuse, igniter <i>tubular metal clad</i>	1.4G
0104	Cord, detonating, mild effect <i>or</i> Fuse, detonating, mild effect <i>metal clad</i>	1.4D
0105	Fuse, safety	1.4S
0106	Fuzes, detonating	1.1B
0107	Fuzes, detonating	1.2B
0110	Grenades, practice, <i>hand or rifle</i>	1.4S
0113	Guanyl nitrosaminoguanilydene hydrazine, wetted <i>with not less than 30 percent water, by mass</i>	1.1A
0114	Guanyl nitrosaminoguanilyltetrazene, wetted <i>or</i> Tetrazene, wetted <i>with not less than 30 percent water or mixture of alcohol and water, by mass</i>	1.1A
0118	Hexolite, <i>or</i> Hexotol <i>dry or wetted with less than 15 percent water, by mass</i>	1.1D
0121	Igniters	1.1G
0124	Jet perforating guns, charged <i>oil well, without detonator</i>	1.1D
0129	Lead azide, wetted <i>with not less than 20 percent water or mixture of alcohol and water, by mass</i>	1.1A
0130	Lead styphnate, wetted <i>or</i> Lead trinitroresorcinate, wetted <i>with not less than 20 percent water or mixture of alcohol and water, by mass</i>	1.1A
0131	Lighters, fuse	1.4S
0132*	Deflagrating metal salts of aromatic nitroderivatives, n.o.s.	1.3C
0135	Mercury fulminate, wetted <i>with not less than 20 percent water, or mixture of alcohol and water, by mass</i>	1.1A
0136	Mines <i>with bursting charge</i>	1.1F
0137	Mines <i>with bursting charge</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0138	Mines <i>with bursting charge</i>	1.2D
0143	Nitroglycerin, <i>desensitized with not less than 40 percent nonvolatile water insoluble phlegmatizer, by mass</i>	1.1D
0144	Nitroglycerin, solution in alcohol, <i>with more than 1 percent but not more than 10 percent nitroglycerin</i>	1.1D
0146	Nitrostarch, <i>dry or wetted with less than 20 percent water, by mass</i>	1.1D
0147	Nitro urea	1.1D
0150	Pentaerythrite tetranitrate, wetted or Pentaerythritol tetranitrate, wetted, or PETN, <i>wetted with not less than 25 percent water, by mass, or Pentaerythrite tetranitrate, or Pentaerythritol tetranitrate, or PETN, desensitized with not less than 15 percent phlegmatizer by mass</i>	1.1D
0151	Pentolite, <i>dry or wetted with less than 15 percent water, by mass</i>	1.1D
0153	Trinitroaniline or Picramide	1.1D
0154	Trinitrophenol or Picric acid, <i>dry or wetted with less than 30 percent water, by mass</i>	1.1D
0155	Trinitrochlorobenzene or Picryl chloride	1.1D
0158	Potassium salts of aromatic nitro-derivatives, <i>explosive</i>	1.3C
0159	Powder cake, wetted or Powder paste, <i>wetted with not less than 25 percent water, by mass</i>	1.3C
0160	Powder, smokeless	1.1C
0161	Powder, smokeless	1.3C
0167	Projectiles, <i>with bursting charge</i>	1.1F
0168	Projectiles, <i>with bursting charge</i>	1.1D
0169	Projectiles, <i>with bursting charge</i>	1.2D
0171	Ammunition, <i>illuminating with or without burster, expelling charge or propelling charge</i>	1.2G

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0173	Release devices, explosive	1.4S
0174	Rivets, explosive	1.4S
0180	Rockets, <i>with bursting charge</i>	1.1F
0181	Rockets, <i>with bursting charge</i>	1.1E
0182	Rockets, <i>with bursting charge</i>	1.2E
0183	Rockets, <i>with inert head</i>	1.3C
0186	Rocket motors	1.3C
0190*	Samples, explosive, <i>other than initiating explosives</i>	None Listed
0191	Signal devices, hand	1.4G
0192	Signals, railway track, explosive	1.1G
0193	Signals, railway track, explosive	1.4S
0194	Signals, distress, <i>ship</i>	1.1G
0195	Signals, distress, <i>ship</i>	1.3G
0196	Signals, smoke	1.1G
0197	Signals, smoke	1.4G
0203*	Sodium salts of aromatic nitro-derivatives, n.o.s. <i>explosive</i>	1.3C
0204	Sounding devices, explosive	1.2F
0207	Tetranitroaniline	1.1D
0208	Trinitrophenylmethylnitramine <i>or</i> Tetryl	1.1D
0209	Trinitrotoluene <i>or</i> TNT, <i>dry or wetted with less than 30 percent water, by mass</i>	1.1D
0212	Tracers for ammunition	1.3G
0213	Trinitroanisole	1.1D
0214	Trinitrobenzene, <i>dry or wetted with less than 30 percent water, by mass</i>	1.1D
0215	Trinitrobenzoic acid, <i>dry or wetted with less than 30 percent water, by mass</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0216	Trinitro-meta-cresol	1.1D
0217	Trinitronaphthalene	1.1D
0218	Trinitrophenetole	1.1D
0219	Trinitroresorcinol <i>or</i> Styphnic acid, <i>dry or wetted with less than 20 percent water, or mixture of alcohol and water, by mass</i>	1.1D
0220	Urea nitrate, <i>dry or wetted with less than 20 percent water, by mass</i>	1.1D
0221	Warheads, torpedo <i>with bursting charge</i>	1.1D
0222	Ammonium nitrate, <i>with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance</i>	1.1D
0224	Barium azide, <i>dry or wetted with less than 50 percent water, by mass</i>	1.1A
0225	Boosters with detonator	1.1B
0226	Cyclotetramethylenetetranitramine, wetted <i>or</i> HMX, wetted <i>or</i> Octogen, wetted <i>with not less than 15 percent water, by mass</i>	1.1D
0234	Sodium dinitro-o-cresolate, <i>dry or wetted with less than 15 percent water, by mass</i>	1.3C
0235	Sodium picramate, <i>dry or wetted with less than 20 percent water, by mass</i>	1.3C
0236	Zirconium picramate, <i>dry or wetted with less than 20 percent water, by mass</i>	1.3C
0237	Charges, shaped, flexible, linear	1.4D
0238	Rockets, line-throwing	1.2G
0240	Rockets, line-throwing	1.3G
0241	Explosive, blasting, type E	1.1D
0242	Charges, propelling, for cannon	1.3C
0243	Ammunition, incendiary, white phosphorus, <i>with burster, expelling charge or propelling charge</i>	1.2H
0244	Ammunition, incendiary, white phosphorus, <i>with burster, expelling charge or propelling charge</i>	1.3H

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0245	Ammunition, smoke, white phosphorus <i>with burster, expelling charge, or propelling charge</i>	1.2H
0246	Ammunition, smoke, white phosphorus <i>with burster, expelling charge, or propelling charge</i>	1.3H
0247	Ammunition, incendiary <i>liquid or gel, with burster, expelling charge or propelling charge</i>	1.3J
0248*	Contrivances, water-activated, <i>with burster, expelling charge or propelling charge</i>	1.2L
0249*	Contrivances, water-activated, <i>with burster, expelling charge or propelling charge</i>	1.3L
0250	Rocket motors with hypergolic liquids <i>with or without an expelling charge</i>	1.3L
0254	Ammunition, illuminating <i>with or without burster, expelling charge or propelling charge</i>	1.3G
0255	Detonators, electric, <i>for blasting</i>	1.4B
0257	Fuzes, detonating	1.4B
0266	Octolite or Octol, <i>dry or wetted with less than 15 percent water, by mass</i>	1.1D
0267	Detonators, nonelectric, <i>for blasting</i>	1.4B
0268	Boosters with detonator	1.2B
0271*	Charges, propelling	1.1C
0272*	Charges, propelling	1.3C
0275	Cartridges, power device	1.3C
0276	Cartridges, power device	1.4C
0277	Cartridges, oil well	1.3C
0278	Cartridges, oil well	1.4C
0279	Charges, propelling, for cannon	1.1C
0280	Rocket motors	1.1C
0281	Rocket motors	1.2C
0282	Nitroguanidine or Picrite, <i>dry or wetted with less than 20 percent water, by mass</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0283	Boosters, <i>without detonator</i>	1.2D
0284	Grenades, <i>hand or rifle, with bursting charge</i>	1.1D
0285	Grenades, <i>hand or rifle, with bursting charge</i>	1.2D
0286	Warheads, <i>rocket with bursting charge</i>	1.1D
0287	Warheads, <i>rocket with bursting charge</i>	1.2D
0288	Charges, shaped, flexible, linear	1.1D
0289	Cord, detonating, <i>flexible</i>	1.4D
0290	Cord, detonating or Fuse, detonating <i>metal clad</i>	1.1D
0291	Bombs, <i>with bursting charge</i>	1.2F
0292	Grenades, <i>hand or rifle, with bursting charge</i>	1.1F
0293	Grenades, <i>hand or rifle, with bursting charge</i>	1.2F
0294	Mines <i>with bursting charge</i>	1.2F
0295	Rockets, <i>with bursting charge</i>	1.2F
0296	Sounding devices, explosive	1.1F
0297	Ammunition, illuminating <i>with or without burster, expelling charge or propelling charge</i>	1.4G
0299	Bombs, photo-flash	1.3G
0300	Ammunition, incendiary <i>with or without burster, expelling charge or propelling charge</i>	1.4G
0301	Ammunition, tear-producing <i>with burster, expelling charge or propelling charge</i>	1.4G
0303	Ammunition, smoke <i>with or without burster, expelling charge or propelling charge</i>	1.4G
0305	Flash powder	1.3G
0306	Tracers for ammunition	1.4G
0312	Cartridges, signal	1.4G
0313	Signals, smoke	1.2G
0314	Igniters	1.2G

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0315	Igniters	1.3G
0316	Fuzes, igniting	1.3G
0317	Fuzes, igniting	1.4G
0318	Grenades, practice, <i>hand or rifle</i>	1.3G
0319	Primers, tubular	1.3G
0320	Primers, tubular	1.4G
0321	Cartridges for weapons, <i>with bursting charge</i>	1.2E
0322	Rocket motors with hypergolic liquids <i>with or without an expelling charge</i>	1.2L
0323	Cartridges, power device	1.4S
0324	Projectiles, <i>with bursting charge</i>	1.2F
0325	Igniters	1.4G
0326	Cartridges for weapons, blank	1.1C
0327	Cartridges for weapons, blank <i>or</i> Cartridges, small arms, blank	1.3C
0328	Cartridges for weapons, inert projectile	1.2C
0329	Torpedoes <i>with bursting charge</i>	1.1E
0330	Torpedoes <i>with bursting charge</i>	1.1F
0331	Explosive, blasting, type B <i>or</i> Agent blasting, Type B	1.5D
0332	Explosive, blasting, type E <i>or</i> Agent blasting, Type E	1.5D
0333	Fireworks	1.1G
0334	Fireworks	1.2G
0335	Fireworks	1.3G
0336	Fireworks	1.4G
0337	Fireworks	1.4S
0338	Cartridges for weapons, blank <i>or</i> Cartridges, small arms, blank	1.4C

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0339	Cartridges for weapons, inert projectile or Cartridges, small arms	1.4C
0340	Nitrocellulose, <i>dry or wetted with less than 25 percent water (or alcohol), by mass</i>	1.1D
0341	Nitrocellulose, <i>unmodified or plasticized with less than 18 percent plasticizing substance, by mass</i>	1.1D
0342	Nitrocellulose, <i>wetted with not less than 25 percent alcohol, by mass</i>	1.3C
0343	Nitrocellulose, <i>plasticized with not less than 18 percent plasticizing substance, by mass</i>	1.3C
0344	Projectiles, <i>with bursting charge</i>	1.4D
0345	Projectiles, <i>inert with tracer</i>	1.4S
0346	Projectiles, <i>with burster or expelling charge</i>	1.2D
0347	Projectiles, <i>with burster or expelling charge</i>	1.4D
0348	Cartridges for weapons, <i>with bursting charge</i>	1.4F
0349*	Articles, explosive, n.o.s.	1.4S
0350*	Articles, explosive, n.o.s.	1.4B
0351*	Articles, explosive, n.o.s.	1.4C
0352*	Articles, explosive, n.o.s.	1.4D
0353*	Articles, explosive, n.o.s.	1.4G
0354*	Articles, explosive, n.o.s.	1.1L
0355*	Articles, explosive, n.o.s.	1.2L
0356*	Articles, explosive, n.o.s.	1.3L
0357*	Substances, explosive, n.o.s.	1.1L
0358*	Substances, explosive, n.o.s.	1.2L
0359*	Substances, explosive, n.o.s.	1.3L
0360	Detonator assemblies, nonelectric, <i>for blasting</i>	1.1B
0361	Detonator assemblies, nonelectric, <i>for blasting</i>	1.4B
0362	Ammunition, practice	1.4G

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0363	Ammunition, proof	1.4G
0364	Detonators for ammunition	1.2B
0365	Detonators for ammunition	1.4B
0366	Detonators for ammunition	1.4S
0367	Fuzes, detonating	1.4S
0368	Fuzes, igniting	1.4S
0369	Warheads, rocket <i>with bursting charge</i>	1.1F
0370	Warheads, rocket <i>with burster or expelling charge</i>	1.4D
0371	Warheads, rocket <i>with burster or expelling charge</i>	1.4F
0372	Grenades, practice, <i>hand or rifle</i>	1.2G
0373	Signal devices, hand	1.4S
0374	Sounding devices, explosive	1.1D
0375	Sounding devices, explosive	1.2D
0376	Primers, tubular	1.4S
0377	Primers, cap type	1.1B
0378	Primers, cap type	1.4B
0379	Cases, cartridges, empty with primer	1.4C
0380	Articles, pyrophoric	1.2L
0381	Cartridges, power device	1.2C
0382*	Components, explosive train, n.o.s.	1.2B
0383*	Components, explosive train, n.o.s.	1.4B
0384*	Components, explosive train, n.o.s.	1.4S
0385	5-Nitrobenzotriazol	1.1D
0386	Trinitrobenzenesulfuric acid	1.1D
0387	Trinitrofluorenone	1.1D
0388	Trinitrotoluene and Trinitrobenzene mixtures <i>or</i> TNT and trinitrobenzene mixtures <i>or</i> TNT and hexanitrostilbene mixtures <i>or</i> Trinitrotoluene and hexanitrostilbene mixtures	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0389	Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT mixtures containing trinitrobenzene and hexanitrostilbene	1.1D
0390	Tritonal	1.1D
0391	RDX and HMX mixtures, wetted <i>with not less than 15 percent water by mass</i> or RDX and HMX mixtures, desensitized <i>with not less than 10 percent phlegmatizer by mass</i>	1.1D
0392	Hexanitrostilbene	1.1D
0393	Hexotonal	1.1D
0394	Trinitroresorcinol, wetted or Styphnic acid, wetted <i>with not less than 20 percent water, or mixture of alcohol and water by mass</i>	1.1D
0395	Rocket motors, liquid fueled	1.2J
0396	Rocket motors, liquid fueled	1.3J
0397	Rockets, liquid fueled <i>with bursting charge</i>	1.1J
0398	Rockets, liquid fueled <i>with bursting charge</i>	1.2J
0399	Bombs with flammable liquid, <i>with bursting charge</i>	1.1J
0400	Bombs with flammable liquid, <i>with bursting charge</i>	1.2J
0401	Dipicryl sulfide, <i>dry or wetted with less than 10 percent water, by mass</i>	1.1D
0402	Ammonium perchlorate	1.1D
0403	Flares, aerial	1.4G
0404	Flares, aerial	1.4S
0405	Cartridges, signal	1.4S
0406	Dinitrosobenzene	1.3C
0407	Tetrazol-1-acetic acid	1.4C
0408	Fuzes, detonating, <i>with protective features</i>	1.1D
0409	Fuzes, detonating, <i>with protective features</i>	1.2D
0410	Fuzes, detonating, <i>with protective features</i>	1.4D
0411	Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN, <i>with not less than 7 percent wax by mass</i>	1.1D

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0412	Cartridges for weapons, <i>with bursting charge</i>	1.4E
0413	Cartridges for weapons, blank	1.2C
0414	Charges, propelling, for cannon	1.2C
0415*	Charges, propelling	1.2C
0417	Cartridges for weapons, inert projectile or Cartridges, small arms	1.3C
0418	Flares, surface	1.1G
0419	Flares, surface	1.2G
0420	Flares, aerial	1.1G
0421	Flares, aerial	1.2G
0424	Projectiles, <i>inert, with tracer</i>	1.3G
0425	Projectiles, <i>inert, with tracer</i>	1.4G
0426	Projectiles, <i>with burster or expelling charge</i>	1.2F
0427	Projectiles, <i>with burster or expelling charge</i>	1.4F
0428	Articles, pyrotechnic <i>for technical purposes</i>	1.1G
0429	Articles, pyrotechnic <i>for technical purposes</i>	1.2G
0430	Articles, pyrotechnic <i>for technical purposes</i>	1.3G
0431	Articles, pyrotechnic <i>for technical purposes</i>	1.4G
0432	Articles, pyrotechnic <i>for technical purposes</i>	1.4S
0433	Powder cake, wetted or Powder paste, wetted <i>with not less than 17 percent alcohol by mass</i>	1.1C
0434	Projectiles, <i>with burster or expelling charge</i>	1.2G
0435	Projectiles, <i>with burster or expelling charge</i>	1.4G
0436	Rockets, <i>with expelling charge</i>	1.2C
0437	Rockets, <i>with expelling charge</i>	1.3C
0438	Rockets, <i>with expelling charge</i>	1.4C
0439	Charges, shaped, commercial <i>without detonator</i>	1.2D
0440	Charges, shaped, commercial <i>without detonator</i>	1.4D
0441	Charges, shaped, commercial <i>without detonator</i>	1.4S

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0442	Charges, explosive, commercial <i>without detonator</i>	1.1D
0443	Charges, explosive, commercial <i>without detonator</i>	1.2D
0444	Charges, explosive, commercial <i>without detonator</i>	1.4D
0445	Charges, explosive, commercial <i>without detonator</i>	1.4S
0446	Cases, combustible, empty, without primer	1.4C
0447	Cases, combustible, empty, without primer	1.3C
0448	5-Mercaptotetrazol-1-acetic acid	1.4C
0449	Torpedoes, liquid fueled, with or without bursting charge	1.1J
0450	Torpedoes, liquid fueled, with inert head	1.3J
0451	Torpedoes with bursting charge	1.1D
0452	Grenades, practice, <i>hand or rifle</i>	1.4G
0453	Rockets, line-throwing	1.4G
0454	Igniters	1.4S
0455	Detonators, nonelectric <i>for blasting</i>	1.4S
0456	Detonators, electric <i>for blasting</i>	1.4S
0457	Charges, bursting, plastics bonded	1.1D
0458	Charges, bursting, plastics bonded	1.2D
0459	Charges, bursting, plastics bonded	1.4D
0460	Charges, bursting, plastics bonded	1.4S
0461*	Components, explosive train, n.o.s.	1.1B
0462*	Articles, explosive, n.o.s.	1.1C
0463*	Articles, explosive, n.o.s.	1.1D
0464*	Articles, explosive, n.o.s.	1.1E
0465*	Articles, explosive, n.o.s.	1.1F
0466*	Articles, explosive, n.o.s.	1.2C
0467*	Articles, explosive, n.o.s.	1.2D
0468*	Articles, explosive, n.o.s.	1.2E

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0469*	Articles, explosive, n.o.s.	1.2F
0470*	Articles, explosive, n.o.s.	1.3C
0471*	Articles, explosive, n.o.s.	1.4E
0472*	Articles, explosive, n.o.s.	1.4F
0473*	Substances, explosive, n.o.s.	1.1A
0474*	Substances, explosive, n.o.s.	1.1C
0475*	Substances, explosive, n.o.s.	1.1D
0476*	Substances, explosive, n.o.s.	1.1G
0477*	Substances, explosive, n.o.s.	1.3C
0478*	Substances, explosive, n.o.s.	1.3G
0479*	Substances, explosive, n.o.s.	1.4C
0480*	Substances, explosive, n.o.s.	1.4D
0481*	Substances, explosive, n.o.s.	1.4S
0482*	Substances, explosive, very insensitive, n.o.s., <i>or</i> Substances, EVI, n.o.s.	1.5D
0483	Cyclotrimethylenetrinitramine, desensitized <i>or</i> Cyclonite, desensitized <i>or</i> Hexogen, desensitized <i>or</i> RDX, desensitized	1.1D
0484	Cyclotetramethylenetetranitramine, desensitized <i>or</i> Octogen, desensitized <i>or</i> HMX, desensitized	1.1D
0485*	Substances, explosive, n.o.s.	1.4G
0486	Articles, explosive, extremely insensitive <i>or</i> Articles, EEI	1.6N
0487	Signals, smoke	1.3G
0488	Ammunition, practice	1.3G
0489	Dinitroglycoluril <i>or</i> Dingu	1.1D
0490	Nitrotriazolone <i>or</i> NTO	1.1D
0491*	Charges, propelling	1.4C
0492	Signals, railway track, explosive	1.3G

Table H-1. UNO HC 1 Requirements Data (Continued)

UNO Number	Proper Shipping Name	HC/DIV with SCG
0493	Signals, railway track, explosive	1.4G
0494	Jet perforating guns, charged, <i>oil well, without detonator</i>	1.4D
0495*	Propellant, liquid	1.3C
0496	Octonal	1.1D
0497*	Propellant, liquid	1.1C
0498*	Propellant, solid	1.1C
0499*	Propellant, solid	1.3C
* An asterisk appearing after the UN or NA Serial Number indicates that, unless otherwise excepted, the technical name of the hazardous material must be entered in parentheses on documentation and package marking in association with the basic description.		

H-2. Table H-2 below lists HC 1 NA identification numbers, PSNs, and HC/DIV with SCG. These PSNs are appropriate for describing materials for domestic transportation but may be inappropriate for international transportation under the provisions of international regulations (e.g., IMO, ICAO). An alternate PSN may be selected when either domestic or international transportation is involved. Table H-3 lists UN identification numbers, PSNs, and HC/DIV for Non-Hazard Class 1 entries.

Table H-2. NA HC 1 Requirements Data

NA ID Number	Proper Shipping Name	HC/DIV with SCG
0006	Explosive pest control devices	1.1E
0124	Jet perforating guns, charged oil well, with detonator	1.1D
0133	Mannitol hexanitrate, wetted or Nitromannite, wetted <i>with not less than 40 percent water, by mass or mixture of alcohol and water</i>	1.1A
0276	Model rocket motor	1.4C
0323	Model rocket motor	1.4S
0331	Ammonium nitrate-fuel oil mixture <i>containing only prilled ammonium nitrate and fuel oil</i>	1.5D
0337	Toy Caps	1.4S

Table H-2. NA HC 1 Requirements Data (Continued)

NA ID Number	Proper Shipping Name	HC/DIV with SCG
0349	Grenades, empty primed	1.4S
0350	Boosters with detonator	1.4B
0412	Explosive pest control devices	1.4E
0473	Barium styphnate <i>or</i> Lead mononitroresorcinate <i>or</i> Nitrosoguanidine	1.1A
0474*	Propellant explosive, liquid	1.1C
0477*	Propellant explosive, liquid	1.3C
0494	Jet perforating guns, charged oil well, with detonator	1.4D
* An asterisk appearing after the UN or NA Serial Number indicates that, unless otherwise excepted, the technical name of the hazardous material must be entered in parentheses on documentation and package marking in association with the basic description.		

Table H-3. UN Non-HC 1 Requirements Data

UN ID Number	Proper Shipping Name	HC/DIV
1325*	Flammable solids, organic, n.o.s.	4.1
1360	Calcium phosphide	4.3
1381	Phosphorus, white dry <i>or</i> Phosphorus, white, under water <i>or</i> Phosphorus, white, in solution <i>or</i> Phosphorus, yellow dry <i>or</i> Phosphorus, yellow, under water <i>or</i> Phosphorus, yellow, in solution	4.2
1693*	Tear gas substances, liquid, n.o.s. <i>or</i> Tear gas substances, solid, n.o.s.	6.1
1697	Chloroacetophenone (CN), <i>solid or liquid</i>	6.1
1993*	Flammable liquids, n.o.s.	3.
2016*	Ammunition, toxic, nonexplosive, <i>without burster or expelling charge, nonfuzed</i>	6.1

Table H-3. UN Non-HC 1 Requirements Data (Continued)

UN ID Number	Proper Shipping Name	HC/DIV
2017	Ammunition, tear-producing, nonexplosive, <i>without burster or expelling charge, nonfuzed</i>	6.1
2805	Lithium hydride, fused solid	4.3
* An asterisk appearing after the UN or NA Serial Number indicates that, unless otherwise excepted, the technical name of the hazardous material must be entered in parentheses on documentation and package marking in association with the basic description.		